

Exploring the Extreme			
1999 Science			
Core Curriculum			
New York Science			
Grades K-4			
Activity/Lesson	State	Standards	
Finding the Center of Gravity Using Rulers	NY	SCI.K-4.1.S1.1a	Observe and discuss objects and events and record observations
Finding the Center of Gravity Using Rulers	NY	SCI.K-4.1.S1.1b	Articulate appropriate questions based on observations
Finding the Center of Gravity Using Plumb Lines	NY	SCI.K-4.1.S1.1a	Observe and discuss objects and events and record observations
Finding the Center of Gravity Using Plumb Lines	NY	SCI.K-4.1.S1.1b	Articulate appropriate questions based on observations
Finding the Center of Gravity Using Plumb Lines	NY	SCI.K-4.1.T1.2a	Identify appropriate questions to ask about the design of an object
Finding the Center of Gravity Using Plumb Lines	NY	SCI.K-4.1.T1.4b	Build a model of the object, modifying the plan as necessary
Changing the Center of Gravity Using Moment Arms	NY	SCI.K-4.1.S1.1a	Observe and discuss objects and events and record observations
Changing the Center of Gravity Using Moment Arms	NY	SCI.K-4.1.S1.1b	Articulate appropriate questions based on observations
Exploring the Extreme			
1999 Science			
Core Curriculum			
New York Science			
Grades 5-8			
Activity/Lesson	State	Standards	
Jet Propulsion	NY	SCI.5-8.6.2.1	Select an appropriate model to begin the search for answers or solutions to a question or problem.
Vectoring	NY	SCI.5-8.1.S1.1a	formulate questions about natural phenomena
Vectoring	NY	SCI.5-8.1.S1.1c	refine and clarify questions so that they are subject to scientific investigation
Center of Gravity, Pitch, Yaw	NY	SCI.5-8.1.S2.2b	design scientific investigations (e.g., observing, describing, and comparing; collecting samples; seeking more information, conducting a controlled experiment; discovering new objects or phenomena; making models)

Center of Gravity, Pitch, Yaw	NY	SCI.5- 8.1.S3.1a	organize results, using appropriate graphs, diagrams, data tables, and other models to show relationships
Fuel Efficiency	NY	SCI.5- 8.1.S2.2b	design scientific investigations (e.g., observing, describing, and comparing; collecting samples; seeking more information, conducting a controlled experiment; discovering new objects or phenomena; making models)
Fuel Efficiency	NY	SCI.5- 8.1.S3.1a	organize results, using appropriate graphs, diagrams, data tables, and other models to show relationships